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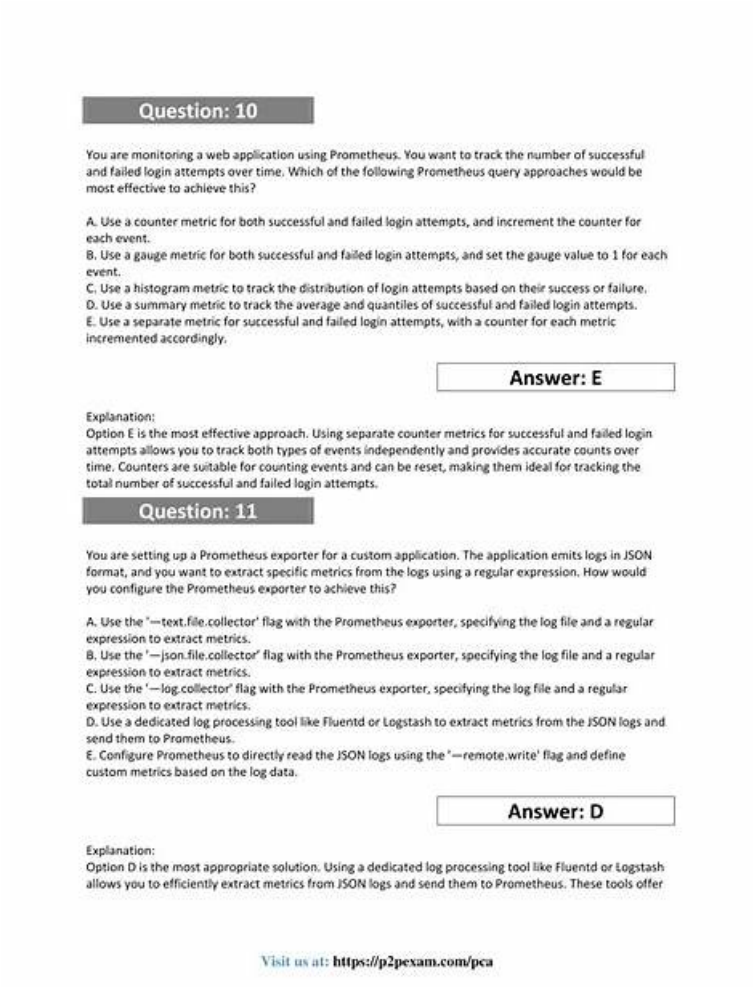

Question: 10

You are monitoring a web application using Prometheus. You want to track the number of successful and failed login attempts over time. Which of the following Prometheus query approaches would be most effective to achieve this?

A. Use a counter metric for both successful and failed login attempts, and increment the counter for each event.
B. Use a gauge metric for both successful and failed login attempts, and set the gauge value to 1 for each event.
C. Use a histogram metric to track the distribution of login attempts based on their success or failure.
D. Use a summary metric to track the average and quantiles of successful and failed login attempts.
E. Use a separate metric for successful and failed login attempts, with a counter for each metric incremented accordingly.

Answer: E

Explanation:
Option E is the most effective approach. Using separate counter metrics for successful and failed login attempts allows you to track both types of events independently and provides accurate counts over time. Counters are suitable for counting events and can be reset, making them ideal for tracking the total number of successful and failed login attempts.

Question: 11

You are setting up a Prometheus exporter for a custom application. The application emits logs in JSON format, and you want to extract specific metrics from the logs using a regular expression. How would you configure the Prometheus exporter to achieve this?

A. Use the '—text.file.collector' flag with the Prometheus exporter, specifying the log file and a regular expression to extract metrics.
B. Use the '—json.file.collector' flag with the Prometheus exporter, specifying the log file and a regular expression to extract metrics.
C. Use the '—log.collector' flag with the Prometheus exporter, specifying the log file and a regular expression to extract metrics.
D. Use a dedicated log processing tool like Fluentd or Logstash to extract metrics from the JSON logs and send them to Prometheus.
E. Configure Prometheus to directly read the JSON logs using the '—remote.write' flag and define custom metrics based on the log data.

Answer: D

Explanation:
Option D is the most appropriate solution. Using a dedicated log processing tool like Fluentd or Logstash allows you to efficiently extract metrics from JSON logs and send them to Prometheus. These tools offer

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Microsoft Designing and Implementing a Data Science Solution on Azure

Sample Questions (Q248-Q253):

NEW QUESTION # 248
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
An IT department creates the following Azure resource groups and resources:
The IT department creates an Azure Kubernetes Service (AKS)-based inference compute target named aks-cluster in the Azure Machine Learning workspace. You have a Microsoft Surface Book computer with a GPU. Python 3.6 and Visual Studio Code are installed.
You need to run a script that trains a deep neural network (DNN) model and logs the loss and accuracy metrics.
Solution: Install the Azure ML SDK on the Surface Book. Run Python code to connect to the workspace. Run the training script as an experiment on the aks-cluster compute target.
Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION # 249
You run a script as an experiment in Azure Machine Learning.
You have a Run object named run that references the experiment run. You must review the log files that were generated during the experiment run.
You need to download the log files to a local folder for review.
Which two code segments can you run to achieve this goal? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

- A. run.get_details()
- B. run.download_files(output_directory='./runfiles')
- C. run.get_file_names()
- D. run.get_all_logs(destination='./runlogs')
- E. run.get_metrics()

Answer: A,D

Explanation:
Explanation
The run Class get_all_logs method downloads all logs for the run to a directory.
The run Class get_details gets the definition, status information, current log files, and other details of the run.
Reference:
https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.run(class)

NEW QUESTION # 250
You plan to create a speech recognition deep learning model.
The model must support the latest version of Python.
You need to recommend a deep learning framework for speech recognition to include in the Data Science Virtual Machine (DSVM).
What should you recommend?

- A. Rattle
- B. Tensorflow
- C. Apache Drill
- D. Weka

Answer: B

Explanation:
Explanation
TensorFlow is an open source library for numerical computation and large-scale machine learning. It uses Python to provide a convenient front-end API for building applications with the framework TensorFlow can train and run deep neural networks for handwritten digit classification, image recognition, word embeddings, recurrent neural networks, sequence-to-sequence models for machine translation, natural language processing, and PDE (partial differential equation) based simulations.
References:
https://www.infoworld.com/article/3278008/what-is-tensorflow-the-machine-learning-library-explained.html

NEW QUESTION # 251
You are preparing to build a deep learning convolutional neural network model for image classification. You create a script to train the model using CUDA devices.
You must submit an experiment that runs this script in the Azure Machine Learning workspace.
The following compute resources are available:
* a Microsoft Surface device on which Microsoft Office has been installed. Corporate IT policies prevent the installation of additional software
* a Compute Instance named ds-workstation in the workspace with 2 CPUs and 8 GB of memory
* an Azure Machine Learning compute target named cpu-cluster with eight CPU-based nodes
* an Azure Machine Learning compute target named gpu-cluster with four CPU and GPU-based nodes You need to specify the compute resources to be used for running the code to submit the experiment, and for running the script in order to minimize model training time.
Which resources should the data scientist use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:
Explanation:

NEW QUESTION # 252
You create an Azure Machine Learning compute target named ComputeOne by using the STANDARD_D1 virtual machine image. You define a Python variable named was that references the Azure Machine Learning workspace. You run the following Python code:
For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:
Explanation:
Box 1:Yes
ComputeTargetException class: An exception related to failures when creating, interacting with, or configuring a compute target. This exception is commonly raised for failures attaching a compute target, missing headers, and unsupported configuration values.
Create(workspace, name, provisioning_configuration)
Provision a Compute object by specifying a compute type and related configuration.
This method creates a new compute target rather than attaching an existing one.
Box 2: Yes
Box 3: No
The line before print(' Step1 ') will fail.
Reference:
https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.compute.computetarget

NEW QUESTION # 253
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